

**C L A I M S**

What is claimed is:

- 5      1. A granulated fertilizer whose components are iron, zinc, manganese, copper, molybdenum, sulphur and clay, wherein its concentrations are iron from 11% to 13%, zinc from 3% to 9%, manganese from 0.1% to 2.5%, copper from 0.5% to 0.7%, molybdenum from 0% to 0.1%, sulphur from 7% to 10%, and from 45% to 57% of clays,  
10      giving as a result a pellet with a size of 1.5 to 4.5 millimeters, using a bonding agent. All percentages in weight are based on the total weight of the fertilizer.
2. A granulated fertilizer according to claim 1, characterized in that  
15      iron is monohydrated iron sulphate or heptahidrated iron sulphate.
3. A granulated fertilizer according to claim 1, characterized in that zinc is monohydrated zinc sulphate.
- 20      4. A granulated fertilizer according to claim 1, characterized in that manganese is monohydrated manganese sulphate.
5. A granulated fertilizer according to claim 1, characterized in that copper is heptahidrated copper sulphate.

6. A granulated fertilizer according to claim 1, characterized in that molybdenum is tetrahydrated ammonium molybdate.

5 7. A granulated fertilizer according to claim 1, characterized in that clay is a caolinite, illinite or montmorillonite or a mixture of any of the above in any proportion.

8. A granulated fertilizer according to claim 7, characterized in that  
10 the mixture of clays contains from 0 to 15% iron, based on the total weight of the mixture of clays.

9. A granulated fertilizer according to claim 1, characterized in that the bonding agent is calcium oxide in a concentration of 0.05 to  
15 0.3%, based on the total weight of the fertilizer.

10. A granulated fertilizer according to claim 1, characterized in that the pellet is 100% soluble in a period of approximately 30 minutes at a temperature of 25°C.

20 11. A granulated fertilizer according to claim 1, characterized in that the granulated fertilizer has a pH of 3.5 to 5.

12. A granulated fertilizer according to claim 1, characterized in  
25 that the granulated fertilizer has a moisture of 2 to 6%.

13. A granulated fertilizer according to claim 1, characterized in that the granulated fertilizer has a hardness of 1.9 to 2.3 Kg/cm<sup>2</sup>.

5 14. A method for preparing a fertilizer like the one quoted in claim 1.

Mix the iron sulphate, zinc sulphate, copper sulphate, manganese sulphate, ammonium molybdate and pulverized montmorillonite, 10 ilite or caolinite clay until a homogeneous mixture of dusts is obtained which will be fed onto a pelletizing plate where a mixture of water and calcium oxide will be added, as a bonding agent, by means of a sprinkler. The mixture of dusts will remain on the pelletizing plate enough time to obtain pellets. The pellets will then be 15 fed into a drying oven where they will lose moisture and will later be sifted.

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